



RAJASTHAN RAJYA VIDHYUT PRASARAN NIGAM LTD  
REGD. OFFICE: VIDYUT BHAWAN, JANPATH, JYOTI NAGAR, JAIPUR  
OFFICE OF THE SUPERINTENDING ENGINEER (400 kV DESIGN)  
Telephone No. 2740751; Fax No. 2740794;  
Email :- se\_400\_kv\_design@rvpn.co.in

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NO. RVPN/SE(400 kV DESIGN)/XEN (Tr.)/TN-306/D.1971 JAIPUR,DT: 13.09.11

M/s. Sterling And Wilson Ltd.,  
C-56/38, Institutional Area,  
Sector-62, NOIDA- 201 307. Fax : 91-120-4071030,  
E-mail delhi@sterlingwilson.com  
Kind Atten:- : Shri Md. Rashid, Manager (EPC)

M/s IVRCL Ltd.  
M-22/3RT.  
Vijaynagar Colony,  
Hyderabad – 500 057,  
A.P. India  
Fax : 91-40 2334 5004  
Email : info@ivrinfra.com  
Kind Atten:- Shri S.Rajesh, Dy. Manager (Tenders)

M/s SPML Infra Limited,  
Plot No. 65, Sector32,  
Gurgaon- 122 001, Haryana. Fax : 91-124-4269139  
Email : info@spml.co.in  
Kind Atten:- Shri Bhushan Prasad, Manager(Tendering)

Sub:- Establishing of 2x315MVA, 400/220kV Substation based on IEC 61850  
Automation System Bhadla (Jdohpur) alongwith 400kV bays at 400kV GSS  
Bikaner under TN-306.

❖ Pre Bid Clarification No. -1

Ref:- (1) Letter dated 09.09.11 of M/s. SPML, Gurgaon.  
(2) E-Mail dated 08.09.11 of M/s. Sterling and Wilson Ltd., Mumbai.  
(3) Letter No. IVRCL / Power / RRVPN / 2011-12 dated 07.09.11 of M/s.  
IVRCL, Hyderabad.

Dear Sir(s),

With reference to your letters referred above, please find enclosed herewith the “Pre-Bid Clarification No.1”.

The Volume-I, Part-VI related to Bid proposal Form, Annexures & Schedules has been given in soft copy for bidders reference and due filling. However, in case of any discrepancy, if any, in hard and soft copy exist, the hard copy shall prevail.

***This is without prejudice to various terms and conditions of the specification.***

Encl: As above

Thanking You,

**Yours faithfully,**

**-sd-  
(L.N.Nimawat)  
Superintending Engineer  
(400kV Design),  
RVPN, Jaipur.**

Copy to :-

- 1 M/s IL&FS Engineering and Construction Company Lt., 4<sup>th</sup> Floor, Phase Down Town Centre Golf Course Road Sector 53, Gurgaon- 122002 Fax : 91-124-4988750, Email : [www.lifsengg.com](http://www.lifsengg.com)
- 2 M/s Larsen & Tourbro Ltd. ECC Division (Engineering Construciotn & Contracts), 1009-16, 10<sup>th</sup> Floor, Sakar II Near Ellis Bridge, Ashram Road, Ahmedabad 380 006. Fax : 079-26576211.
- 3 M/s UB Engineering Limited, A-83, DDA Sheds, Okhla Industrial Area, Phase-II, New Delhi – 110 020 Fax : (00-91-11) 40597713, Email: [delhio@ubengg.in](mailto:delhio@ubengg.in)
- 4 M/s EMCO Ltd., Plot F-5, Road No. 28, Wagle Industrial Area, Thane- 400 604. Fax No. 022-40404500, E-Mail:- prashant. [Mehta@emcoindia.com](mailto:Mehta@emcoindia.com)
- 5 M/s A2Z Maintenance & Engineering Services Ltd., 0-116, First Floor, Shopping Mall, DLF City, Phase-I, Gurgaon-122002. Haryana. Fax: 0124-2566582, Email: [info@a2zemail.com](mailto:info@a2zemail.com)
- 6 M/s. Bharat Heavy Electricals Ltd., Transmission Business Group, Integrated Office Complex, Lodhi Road, New Delhi-110003. Email: [zoheb@bhelindustry.com](mailto:zoheb@bhelindustry.com)
- 7 M/s Bharat Bijlee, Milap Niketan, 4<sup>th</sup> floor, B-A, Bahadur Shah Zafar Marg, New Delhi 110 002 Fax: 011-23319413, Email: [trafodelhi@bharatbijlee.com](mailto:trafodelhi@bharatbijlee.com)
- 8 M/s Sterling And Wilson Ltd., Kasturi, Sanghvi Est. Govandi Station Road, Govandi (E), Mumbai – 400088 FAX NO. :- 022-25485331 E-Mail :- [ashid@sterlingwilson.com](mailto:ashid@sterlingwilson.com)
- 9 M/s Shyama Power India Ltd., 421, Udyog Vihar, Phase-IV, Gurgaon- 122 015. Fax: (0124) – 264 5120 Email : [infor@shyampower.com](mailto:infor@shyampower.com)
- 10 M/s Techno Electric And Engineering Co. Ltd., 2F&3F, Park Plaza, North Block, 71, Park Street, Kolkata- 700 016. Fax : 033-2217-1167
- 11 M/s Jyoti Structure Ltd., Valecha Chambers, 5<sup>th</sup>/6<sup>th</sup> Floor, New Link Road, Oshiwari, Andheri (West), Mumbai Fax : (91-122-4091504)115, Email : [contact@jyotisttructures.com](mailto:contact@jyotisttructures.com)
- 12 M/s G.E.T. Power Pvt. Ltd., 153, Developed Plots, Electrical & Electronics Industrial Estate, Perungudi, Chennai- 600 096. Fax : 0091-44-45991000, Email: [get@getpower.in](mailto:get@getpower.in)
- 13 M/S Ramky Infrastructure Ltd., 153, Shanti Nagar, Nr. Shyam Nagar Police Station, King's Road, Ajmer Road, Jaipur 302019, Email : [rillijaipur@ranky.com](mailto:rillijaipur@ranky.com)
- 14 M/s Crompton Greeven Ltd., 3<sup>rd</sup> floor, Tower A, DLF Cyber-Green, Sector-25-A, DLF Phase-III, Gurgaon 122 022. Fax : 91 -124 -304 7777

- 15 M/s Areva T&D India Ltd., 106, 1<sup>st</sup> Floor, Sangam Tower, Churuch Road, Jaipur 302 001. **Fax : 91-141-2387123**
- 16 M/s ABB,C-116, Alaknanda, Iind Floor, Behind Vidhan Sabha, Janpath, Jaipur 302 015.  
**Fax : 141 2744027**
- 17 M/s ICOMM Tele Limited Corporate Office, Trendset Towers, Road No.2, Banjara Hills, Hyderabad 500 034  
**Fax : 91-40-23552266, Email : [info@icommtel.com](mailto:info@icommtel.com)**
- 18 M/s Simplex Infrastructures Ltd., Simplex House 27, Shakespeare Sarani, Kolkata 700 017.  
**Fax: (033) 2283-5964/65/66**
- 19 M/s. Aster Pvt. Ltd.,Transmission & Distribution Services,Plot No. 1305, Sector- 31 / 32A, Gurgaon – 122001 (Haryana). **Email: [manoj.behera@atspl.com](mailto:manoj.behera@atspl.com)**
- 20 M/s SEW Infrastructure Ltd., Plot No. 184/A, Road No. 15, Near Ramalayam Telple, Jubilee Hills, Hyderabad 500 033. **Fax: 91-40-2354 2168, Email: [electrical@sewinfrastructure.com](mailto:electrical@sewinfrastructure.com)**
- 21 M/s KEC International Ltd., 1<sup>st</sup> Floor, Building No. 9A,DLF Cyber City Phase-III, Gurgaon (Haryana)-122 002.  
**Fax : 91-124-4188799, E-Mail :- mittalsn@kecrpg.com. [pandeyd@kecrpg.com](mailto:pandeyd@kecrpg.com)**
- 22 M/s Safety Controls & Devices, Behind Skylark Building, C-43/28/1, Newal Kishore Road, Hazratganj, Lucknow, 226 001, **Fax 0522-4026070, Email: [scd.1997lko@gmail.com](mailto:scd.1997lko@gmail.com)**
- 23 M/s. Siemens Ltd., Plot No. 6A, Sec.-18, Maruti Industrial Area, HUDA, Gurgaon – 122015.  
**Fax : 0124-2846061, Email : [Arvind.suryavanshi@siemens.com](mailto:Arvind.suryavanshi@siemens.com)**
- 24 M/s ECI Engineering & Construction Company Ltd., Plot No. A-12-13, Panchavati Township, Manikonda, Rajendranagar Mandal, RR Dist. Hyderabad 500 089. **Fax : 91 40 24786100, Email: [eci@eciecc.com](mailto:eci@eciecc.com)**
- 25 M/s Mavin Switchgears and Control, 20, Mavin House, Rauza Baugh, Aurangabad 431 001.  
**Fax : 0240- 2380066, Email : [shafaatkhan@manvigroup.net](mailto:shafaatkhan@manvigroup.net)**
- 26 M/s Easum Products of India Pvt. Ltd., "Temple Tower" 672, Anna Salai, Chennai- 600 035  
**Fax : 91 44 2434 6435, Email : [rajan.epli@easungroup.in](mailto:rajan.epli@easungroup.in)**

-sd-  
**Superintending Engineer  
(400kV Design),  
RVPN, Jaipur.**

## Pre Bid Clarification No. 1 (TN-306)

### References :-

- A) Letter dated 09.09.11 of M/s. SPML, Gurgaon.
- B) E-Mail dated 08.09.11 of M/s. Sterling and Wilson Ltd., Mumbai.
- C) Letter No. IVRCL / Power / RRVPN / 2011-12 dated 07.09.11 of M/s. IVRCL, Hyderabad.

S.No.	Clause Reference	Existing Clause	M/s. SPML / Sterling and Wilson / IVRCL's Query	RVPN's Reply
1	Vol.-I Schedule B-1 – Schedule of rates & prices	Plant & equipment (including mandatory spares parts) to be supplied, including type test charges for tests to be conducted.	Please confirm whether the bidder to consider type test charges or not. Please refer Schedule-F (Schedule of Type Test Charges Break-up) which states that the same is not applicable.	Please refer clause No. 13.12, Part-2, Vol.II of specification.
2	Vol.I – Schedule B-1 – Scheule of rates & prices – S.No. C3-1	Necessary integration of substation automation system for 220 / 132 / 33kV GSS Bhadla to 400kV GSS Bhadla	Please provide the details / architecture of existing Substation Automation System.	Please read clause No. 2.1.1 (b), Part-1 of Vol.II of specification.
3	Vol. – Schedule B-1 – Schedule of rates & prices – S.No. C-3 – 1 (Note(1))	Unarmoured 12 Core fibre optic cable with underground ..... shall also be covered in this item.	Please inform us the distance between 400kV main control room building and 220 / 132 / 33kV control room building.	Location of control rooms are tentative, exact locations shall be finalized during detailed engineering.
4	Vol.II, Part-11	Technical specification for battery and battery charger.	We have not received the technical specification for 48V, 600AH VRLA battery and charger with the tender document. Please provide	As per Annexure-1, Part-1 of Vol.II of Spec. You have to quote for 48V, 600AH VRLA Battery Set and 50V, SMPS Battery Charger of 100Amp for which necessary specification have been provided at Part-11 , Vol.II of Specification.

			the same.	
5	Vol.II, Civil Works	Cl. 3.1 – Based on preliminary survey ..... rationally.	We have not received soil investigation report with the tender document. Please provide the same.	Soil investigation is in the scope of bidder.
6	Vol.II, Part-24	Drawing No. Drg No. RVPN / EHV / TN-306 - 2A	Please inform us the distance of control room building from switchyard.	It shall be finalized during detailed engineering.
7	Vol.II – Part-24	Drawing No. Drg No. RVPN / EHV / TN-306 – 3A	Typical cable tray arrangement is depicted in the said drawing. Please confirm whether the same to be replicated for all bays as well.	Yes, the same to be replicated for all bays as well.
8	Vol.II, Part-24	Index-B Civil Drawings –(b) 220kV (Bhadla) – RVPN / Civil / DRG- 4B	We have not received the said drawing with the tender document. Please provide the same.	All drawings were enclosed. One additional copy is being enclosed herewith for ready reference.
9	General points		We have not received the technical specification for cable tray. Please confirm whether bidder to consider GI Ladder type or perforated type cable tray.	Cable Tray shall be perforated type.
10	General points		Please provide the dimension and weight of 315MVA Power Transformer, 125MVAR Bus Shunt Reactor and 50MVAR Line Shunt	It shall be provided during detailed engineering.

			Reactor.																																	
11	General points		Please provide soft copy of all drawing in Autocad Format	The design is in the scope of bidder.																																
12	General points		Please provide the weight of all type of columns & beams	The design / necessary calculations are in the scope of bidder.																																
13	General points		Kindly specify the No. of Circuit Breakers which have pre insertion resistors / closing resistors for long transmission line bays.	<p>Please read item No. 1(a) "Circuit Breaker" of B "Equipments", Annexure-I, Part-1, Vol.II of specification as follows:-</p> <table border="1"> <thead> <tr> <th rowspan="2">S. No.</th> <th rowspan="2">Item Description</th> <th rowspan="2">Unit</th> <th colspan="2">Qty.</th> </tr> <tr> <th>Bhadla</th> <th>Bikaner</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Circuit Breaker</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(a) (i)</td> <td>420 kV, 2000 Amp., 40 kA rupturing capacity circuit Breaker suitable for single and three phase rapid auto reclosing complete with mounting structures, foundation bolts and nuts and first filling of SF6 gas plus 20% spare gas including accessories and auxiliaries.</td> <td>Nos.</td> <td>13</td> <td>1</td> </tr> <tr> <td>(a) (ii)</td> <td>Terminal Connectors for above item (a) (i).</td> <td>Nos.</td> <td>78</td> <td>6</td> </tr> <tr> <td>(a) (iii)</td> <td>420 kV, 2000 Amp., 40 kA rupturing capacity circuit Breaker for controlling Shunt Reactor (Bus Type), suitable for single and three phase rapid auto reclosing complete with mounting structures, foundation bolts and nuts and first filling of SF6 gas plus 20% spare gas including accessories and auxiliaries.</td> <td>Nos.</td> <td>2</td> <td>2</td> </tr> <tr> <td>(a)(iv)</td> <td>Terminal</td> <td>Nos.</td> <td>12</td> <td>12</td> </tr> </tbody> </table>	S. No.	Item Description	Unit	Qty.		Bhadla	Bikaner	1.	Circuit Breaker				(a) (i)	420 kV, 2000 Amp., 40 kA rupturing capacity circuit Breaker suitable for single and three phase rapid auto reclosing complete with mounting structures, foundation bolts and nuts and first filling of SF6 gas plus 20% spare gas including accessories and auxiliaries.	Nos.	13	1	(a) (ii)	Terminal Connectors for above item (a) (i).	Nos.	78	6	(a) (iii)	420 kV, 2000 Amp., 40 kA rupturing capacity circuit Breaker for controlling Shunt Reactor (Bus Type), suitable for single and three phase rapid auto reclosing complete with mounting structures, foundation bolts and nuts and first filling of SF6 gas plus 20% spare gas including accessories and auxiliaries.	Nos.	2	2	(a)(iv)	Terminal	Nos.	12	12
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14	General points		Since Ramgarh & Jodhpur locations are under high seismic zones, dead tank CTs should be preferred over live tank CTs.	Please adhere with the specification.																									
15			Please clarify whether the Tarantulla Conductor is ACSR or AAC	<p>Tarantulla Conductor shall be AAC. Therefore please read item No. 23 of H "Hardwares and Mechanical / Electrical Auxiliaries", Annexure-I, Part-1, Vol.II of Specification as follows:-</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Item Description</th> <th>Unit</th> <th colspan="2">Qty.</th> </tr> </thead> <tbody> <tr> <td>23</td> <td>AAC Tarantulla Conductor</td> <td>Km.</td> <td>Lot</td> <td>Lot</td> </tr> </tbody> </table> <p>Accordingly, this item shall be read in Schedule-B1, B-2 &amp; B-3.</p>	S.No.	Item Description	Unit	Qty.		23	AAC Tarantulla Conductor	Km.	Lot	Lot															
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